BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

Estimate Cost Rs. 2500000.00

Name of Work: Detailed Estimate for the work of Drilling of borewells and providing pipe line in yelahanka old town area and village areas in ward No- 02 of yelahanka Sub Division.

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
1	Geophysical investigation of site for sinking borewell for supplying drinking water to the habitation either through the hand pump MWS or P W S S. by vertical electrical sounding by adopting venner or schlumbergers's method, including reconnaissance survey of geological formation. Geological investigation of existing ground water in vicinity its quality, quantity & acceptability of the users indicating the location of site, recommended depth of casing pipe required to seal the top unconsolidated formation including an extra depth of 1.0 mtr in consolidated formation for proper seating of casing pipe, depth of drilling required to cover full depth of aquifer proposed to be tapped, probable yield and other information required including transportation of instrument and accessories to work site, engaging technical personal and labour required etc (P.NO-47, I.NO-9.4, PRED 12-13 SR)	Nos	4				4	1882.00	7528.00
	Basic Rate	1882.00							
	Total	1882.00							
2	Sinking of borewell of 165 mm dia clear using super fast hydraulic rig of capacity 250 PSIG & above 900 CMF & above in all strata including over budern upto 20 m, fixing of casing pipes, collars & cap with necessary cutting, threading & welding including transportation of rig and supporting vehicle, crew charges & cost of consumables etc., complete including yield testing at the final depth with minimum working of compressor for one hour(excluding cost of casing pipes, collars, cap etc.,) (P.NO-47, I.NO-9.1, PRED 12-13 SR)	Rmt							
	0.00 to 50.00 Mtr.		4	50.00			200.00	315.18	63036.00
	50.00 to 100.00 Mtr.		4	50.00			200.00	412.00	82400.00
	100.00 to 150.00 Mtr.		4	50.00			200.00	458.35	91670.00
	150.00 to 200.00 Mtr.		4	50.00			200.00	484.10	96820.00
	200.00 to 250.00 Mtr.		4	50.00			200.00	560.32	112064.00
	250.00 to 300 Mtr.		3	50.00			150.00	600.49	90073.50

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
	300.00 to 350 Mtr		1	50.00			50.00	680.00	34000.00
	350.00 to 380 Mtr		1	30.00			30.00	740.00	22200.00
	Basic Rate	306.00							
	3% area weightage	9.18							
	Total	315.18							
3	Supplying of ISI Mark 175 mm nominal bore plain end steel casing pipe grade of steel fee 410 of wall thickness 5 4 mm thick confirming to IS 4270: 2001 and latest amendments electric resistance welded steel tube material and confirming to IS 1387 / 1993 and manfactured by basic open earth electric or basic oxygen process in random length of 5 to 7 mtrs both ends threaded confirming to IS554 / 1985 one end fixed with socket confirming to IS 4270 2001 and the other end with screwed pipes all pipes shall be reasonably free from defects the tubes shall be with ISI marking weighing 25.10 kg/mtrs (inclusive of all taxes and durites) prices include coller medium duty PRED SR 2012-13 PAge No III	Rmt							
			3	60.00			180.00	1325.00	238500.00
	Basic Rate	1325.00							
4	Providing and fixing 250mm dia PVC 6 kg/sqcm pressure pipe including jointing and labur charges for laying pipes and as per specification and directions (BWSSB SR 13-14, P.No.45 I no 1 of sl no 11)	Each							
			3	15.00			45.00	1100.00	49500.00
	Basic Rate	1100.00							
5	175 mm dia M.S. Casing cap (P.NO-III, I NO-85, PRED 12-13 SR)	Each							
			3				3.00	100.00	300.00
	Basic Rate	100.00							
6	M.S. Casing pipe collars 'C' Class (P.NO-III, I NO-86, PRED 12-13 SR)	Each							
			3	13.00			39.00	150.00	5850.00
	Basic Rate	150.00							

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
7	Supply & delivery at site brand new texmo/innova/lubi/sabar /Atalanta/calamal/ waterman/Radha make suitable HP deep well submercible pumpset suitable for vertical installation in 150 dia borewells compressing of single stage or multistage CF pump close coupled by means of stainless steel coupling to suitable HP suitable speed totally enclosed and filled with pure drinking water squirrel cagesubmercible induction motor suitable for operation of 3Ph 50Hz 380/440 volts AC supply fitted with required accessories such as suction casing suction strainers, sand guard Non return valve etc Complete the pump and motor shall from an integral unit with all the required fittings 15.000 HP 30 stage (P NO-XXXXIII, I NO-33, PWD SR 13-14) kirloscar pumps	set							
			3				3.00	70600.00	211800.00
	Basic Rate	70600.00							
8	Providing, GI pipes confirming to IS specification of approved make with fittings such as collars bends elbows tees nipples plugs with cuts threads using white lead & threads for joints wherever necessary as per direction including all lead & lift etc. complete 'A' grade(excluding cost of fittings)b50mm dia GI pipe (SR 15-16 PWD Page No XVII code No 509. 0154)B class Pipe 50mm dia	Rmtr							
			3	260.00			780.00		
							780.00	321.00	250380.00
	Basic Rate	321.00							
9	Providing & fixing socket GI (heavy duty collar) (Pwd SR pg xxxviii) 50mm dia	No							
			3	50.00			150.00	84.80	12720.00
	Basic Rate	84.80							
10	Supplying and drawing 3 core flat PVC sheathed sub mersible pump cable manufactured with electrolytic grade copper with flexible copper with low resistance conductor confirming to table 3 class 5 of IS 8130 1984 and virgin grade PVC insulation and powder coating extructed PVC sheathed suitable for working voltage upto 1100 volts as per 694 1991 & confirming to GTP of GROUP A KPWD Electrical SR 2014-15 page No 12 Item No 2.10.3	Mtr							

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
			3	550.00			1650.00	126.70	209055.00
	Basic Rate	126.70							
11	Supplying & delivery at site brand new / Essen / Lotus sunshine/Adarsh/ Gk controls best indigenious make combine energy meter-cum control **panel board** unit of size 1200 x 600 x 300 mm minimum mechanically strong and vermin and water proof the unit shall have two detachable doors suitable for operation on 3ph, 50Hz, 380/440 volts, AC supply with spring loaded latch locking with a key nbs. should be provided inside the door canopy apron and louvers ventilators shall be provided the combine energy mtr cum control panel board unit suitable for operation on 3ph, 50Hz, 380/440 AC supply shall be consisted etc., completed T panel board shall be fabricated on single unit in the above components panel board for suitable pumpset above components panel board for suitable pumpset above 6.50 HP to 15.00 HP with star delta starter (MR)	no							
			3				3.00	10000.00	30000.00
11	Supplying fully automatic star delta starter unit push button type with suitable wires 3 contactors one adjustable thermal timer mounted on a common base plate held in steel enclosure for use on 400/440 volts 3 phase and wired after fixing to the existing wooden board for motor above 15 H P upto 25 HP KPWD ELectrical SR for 2015-16 P 44 Item No 6.2.2	Each							
			3				3.00	8273.00	24819.00
12	Fabricating supplying and mounting MS box made out SWG suitable for floor / wall mounting fully weather proof with provision for better heat description. providing with hinged front cover. equipped with tamper proof locking arrangements with suitable size clamps with necessary cable entry pipe with gland and box should be finished with 2 coats of red oxide primer paint and finally finished with approved colour enameled metal paint etc complete. KPWD Electrical SR 2014-15 page No 49 Item No 6.40.2	Sqm Cm							
			3	1100.00	20.00		66000.00		
	Basic Rate	0.33					66000.00	0.33	21780.00
13	Providing & Fixing of clamps set and borewell cap to the pump	No's							
			3				3.00	450.00	1350.00

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
14	Supplying & delivery of brand new best make gate wheel valve of size 50mm as per IS: 778/84 with latest amendments with ISI mark (50mm Gate wheel Valve.) (PWD SR 15-16, P NO XXIV, Sl.no, 673)	No's							
			3	3.00			9.00	1600.00	14400.00
	Basic Rate	1600.00							
15	Supplying and delivery of brand new best make Non return Valve of size 50mm as per IS: 778/84 with latest amendments with ISI mark . 50mm non return Valve for distrubutor pipeline 50mm dia (PWD SR 15-16, P NO XXIV, Sl.no, 659)	No's							
			3	3.00			9.00	1145.00	10305.00
	Basic Rate	1145.00							
16	Providing and fixing of 50mm GI bend to motor (PWD SR 13-14, P NO XXXVIII GI FITTINGS TABLE)	No's							
			3	3.00			9.00	219.00	1971.00
	Basic Rate	219.00							
17	Providing and fixing of 50mm GI Nipple to motor (PWD SR 13-14, P NO XXXVIII GI FITTINGS TABLE)	No's							
			3	3.00			9.00	104.30	938.70
	Basic Rate	104.30							
18	Providing and fixing of 50mm GI union to the motor ((PWD SR 13-14, P NO XXXVIII GI FITTINGS TABLE)	No's							
			3	3.00			9.00	223.70	2013.30
	Basic Rate	223.70							
19	Labour charges for erection of new /repaired submersible pumpset along with GI pipes (32/50mm) cable (new submersible pumpset if required will be supplied by the department free of cost and released pump set should be handed over to department) including transportation (each length = 6.00m) (P No - 558, I.No - 3, BWSSB SR 13-14)	Per length							
			3	50.00			150.00	88.00	13200.00
	Basic Rate	88.00							

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
20	Supplying and fixing miniature circuit breakers existing MCB distrubution boards using necessary fixing materials and C type curve indicator ON/OFF energy cross 3 with short circuit beaking capacity of 10 K and complete to EIC 60898 40-63 Amps D P Page No 47 item No 6.16.4 KPWD electrical SR 2014-15	No's							
			3	1.00			3.00	1093.00	3279.00
	Basic Rate	1093.00							
21	Supplying of 1 1 KV LTUG Cable having aluminium condutor PVC insulated extructed inner sheathed galvanised steel strip (exept 2 C x 10 sq mm wire armoured) confirming to IS 3975 1990 (No if strip indicated in GTP & extructed PVC outer sheathed armoured cable with specified IS 1554 part 1 1988 & confirming to GTP of group A 4 core 16 sqm KPWD SR 2014-15 page No 55 Item No 7.4 4	Mtr							
			3	30.00			90.00	140.40	12636.00
	Basic Rate	140.40							
22	Digging of trenches of 0.6mm x 0.50 Mtrs wide refilling the trench to the required ground level and consolidating etc. Complete as per in soil (hard) CIVIL SR KSRB 12 P7 item no 7 9 2 page No 68 KPWD SR 2014-15	Mtr							
			3	30.00			90.00	106.00	9540.00
	Basic Rate	106.00							
23	Supplying and fixing Class-A (medium duty) GI Pipe of wall thickness not less than 3.25mm on pole / wall drain crossing with necessary clamping arrangmenets for UG cable of 1 1 KV Page No 68 item no 7 12 1 40mm	Mtr							
			3	3.00			9.00	345.00	3105.00
	Basic Rate	345.00							

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
24	Supplying and fixing wiring earth electrode for grounding conduits, IC cutouts and other equipments on the meter board using 40mm dia 2.90 mm thick GI pipe 2.5 mtr long buried in a pit,/ the pit should be filled with equal proportion of salt and charocal 150 mm alround the pipe to complete depth the connections from the pipe to the conduit etc is to be established though GI wire of size as per ISI specification 7.3.3 of ISI 732 using 12mm dia boalts nuts washers and checknuts etc the pipe shall have 16 through holes of 122mm dia KPWD Electrical SR 2014-15 Page No 62 Item No 7.1	No's							
			3				3.00	2727.00	8181.00
	Basic Rate	2727.00							
25	Supply and fixing LT cast iron pot heads suitable for 1.1 KV class 16 sqmmUG cable filled with necessary bitumen/ insulating compound complete with terminals, clamps bolts nuts and washers etc,KPWD Electrical SR 2014-15 Page No 62 Item No 7.13.2	Each							
			3				3.00	280.00	840.00
	Basic Rate	280.00							
26	Supplying shunt capacitor's confirming to IS 2834, 3phase 400/440 volts grade for power factor improvement of roating machinery capacitor in KVAR rating No's (MR)	No's							
			3				3.00	1350.00	4050.00
27	Providing and fixing Gun Metal Gate wheel valve confirming to IS specification of approved make as per direction including all lead and lift etc, Complete 50mm dia (P.NO - 94 I No 13.79.6 PWD SR 2015-16)	No's							
			3	3.00			9.00	1526.40	13737.60
	Basic Rate	1440.00							
	6% area weightage	86.40							
	Total	**1526.40**							

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
28	Supplying and fixing of polished wood board made of not less than 15mm thick plank on both sides with planks made out on not more than 2 pieces and fixing the same to wall using tapered inverted wooden plugs screws etc., Size 20 x 20 x 2.5 inches KPWD Elctrical SR 2014-15 Page No 52 Item No 6.6.6	No's							
			3				3.00	302.00	906.00
	Basic Rate	302.00							
29	KSRB 2-1.1 Earthwork excavation for foundation of buildings, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, in hard soil not exceeding 1.5 m in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50m after breaking of clods complete as per specifications (P.NO - 5, I.NO - 2.1, PWD SR 13-14)	Cum							
	for PVC pipe		2	900.00	0.50	0.90	810.00		
							810.00	283.02	229246.20
	Basic Rate	267.00							
	6% area weightage	16.02							
	Total	**283.02**							
30	Providing and instalation at site of works P V C.Pipes including cost of pipes and specials and includng lowring into trenches, laying true to line, level and perfect linking at joints leak proof including jointing encasing the pipe alround to a depth Not less than 15cm with grave or selected earth avalabile from the execavation Etc., **Page No.15 item No.3.4.2 b PRED SR 2012-13**	Rmtr							
	75 mm dia 6 KSC PVC pipe		1	200.00			200.00	157.00	**31400.00**
	63mm dia 6KSC		2	800.00			**1600.00**	112.00	**179200.00**
31	Providing and installation at site of work 20mm GI pipes including cost of pipes and specials and labur incluidng lowering into trenches, laying ture to line, complete as per direction of Engineer in charge for public taps for motors/pipeline (P.No.90, I.No 13.11 PWD SR 15-16	Mtr							
			3	30.00			90.00	196.10	17649.00
	Basic Rate	185.00							
	6% area weightage	11.10							
	Total	**196.10**							

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
32	Refilling available earth around pipe lines, cables in layers not exceeding 20cms in depth, compacting each deposited layer by ramming after watering with lead upto 50m and lift upto 1.5m including cost of all labour complete as per specifications (P.NO - 6, I.NO - 2.11, PWD SR 13-14)	cum					810.00		61819.00
							202.50	76.32	15454.80
	Basic Rate	72.00							
	6% area weightage	4.32							
	Total	76.32							2277263.00
							Sub Total		2240838.00
	KRIDL Charges 8%								179267.04
									37500.00
33	Bescom Deposit charges	No's	3				3.00	18000.00	72000.00
								12,500=00	4500=00
34	water quality testing charges	LS	3				3.00	1500.00	6000.00
35	Miscelaneous and rounding off.							1796=00	1895.00
								TOTAL	2500000.00
	(Rupees Twenty five Lakhs Only)								

CERTIFICATE

1 The work spot has been inspected and the work is found necessary.

2 The Estimate is prepared as per the PRED SR 2012-13 and PW,P & IWTD SR 2013-14 and BWSSB Electrical SR 2013-14

3 The provisions were made in this estimate are necessary and adequate.

4 This works come under B.B.M.P. limits.

Assistant Engineer

Assistant Executive Engineer
Yelahanka Sub Division
Bangalore-64

Executive Engineer
Yelahanka Division
Bangalore-64

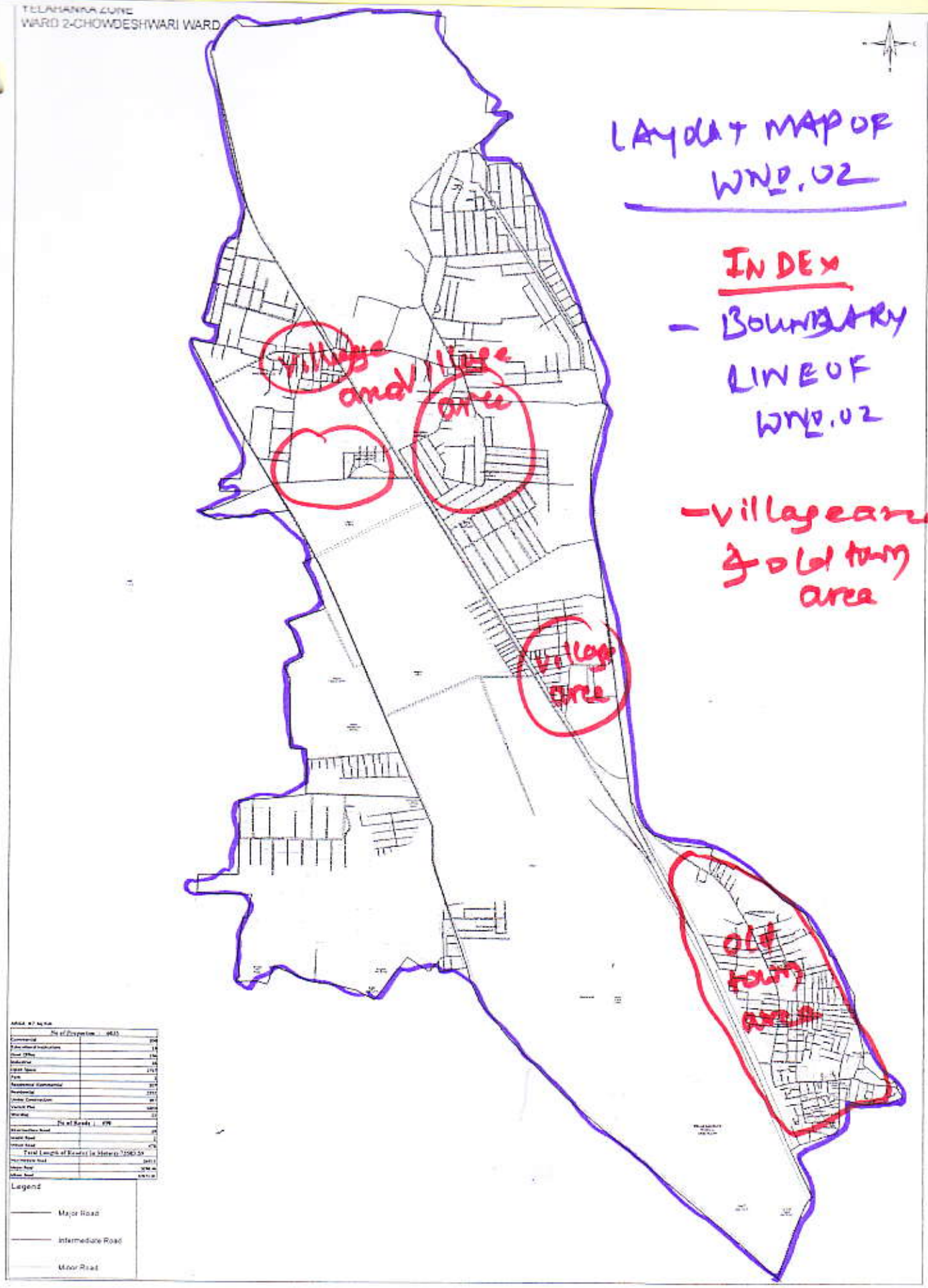
Administrative Approval
Accorded For ..Rs 25.00 lakhs
Head of A/C..P 2415
CER NO :..139.. Dt:..10.03.16

TA CE (YNK)

Technical Sanction
Accorded For ..25.00 lakhs Rs
Head of A/C..P 2415
CER NO :..128.. Dt: 10.03.16

TA CE (YNK)

YELAHANKA ZONE
WARD 2-CHOWDESHWARI WARD



Ramegowda

Asst. Executive Engineer
Yelahanka Sub. Divison
(BBMP Ynk. Zn)
Yelahanka, Bangalore